

10-28-1999

# Washington University Record, October 28, 1999

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## Recommended Citation

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# Record

Oct. 28, 1999

Volume 24 No. 10



Washington University in St. Louis



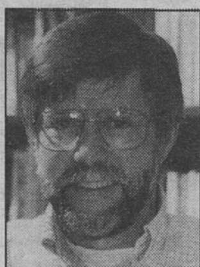
**Celebration** Chancellor Mark S. Wrighton wields the scissors at ribbon-cutting ceremonies for the new Nemerov, Lien and Gregg residential houses Saturday, Oct. 23. Naomi Lebowitz, Ph.D., the Hortense and Tobias Lewin Distinguished Professor in the Humanities in Arts & Sciences, and Merle Kling, Ph.D., former University provost and professor emeritus of political science, share the stage.

## Fields named to new chair

By LIAM OTTEN

**W**ayne Fields, Ph.D., professor of English and director of the American Culture Studies Program in Arts & Sciences, has been named the first holder of the Lynne Cooper Harvey Distinguished Chair in English, according to an announcement by Chancellor Mark S. Wrighton and Edward S. Macias, Ph.D., executive vice chancellor and dean of Arts & Sciences. A formal installation ceremony will take place Dec. 2 in Holmes Lounge.

"We are very grateful for the generous gift that makes this distinguished professorship possible," Wrighton said. "Professor Fields is an outstanding academic leader in our American Culture Studies Program, and we are pleased he will be the inaugural



**Fields** Frequent media commentator  
See **Fields**, page 2

## Startling Neandertal find New fossil dating challenges earlier theories

By ANN NICHOLSON

**E**rik Trinkaus, Ph.D., professor of anthropology in Arts & Sciences, and an international team of scientists have documented that Neandertals roamed central Europe as recently as 28,000 years ago — the latest date ever recorded for Neandertal fossils worldwide.

The team's findings, published in the Oct. 26 issue of the prestigious journal "Proceedings of the National Academy of Sciences" (PNAS), could force other scientists to rethink theories of Neandertal extinction, intelligence and contributions to the human gene pool.

The research includes new radiocarbon dating on Neandertal fossils found in northern Croatia, indicating thousands of years of coexistence between Neandertals and early modern humans in central Europe.

"The new dates demonstrate that extinction of the Neandertals by early modern humans, whether by displacement or population absorption, was a slow and geographically mosaic process," Trinkaus said. "The differences between Neandertals and early modern humans in basic behavior and abilities must have been small and rather subtle."

Using direct accelerator mass spectrometry radiocarbon dating, team member Paul Pettitt and colleagues at Oxford University determined that two pieces of Neandertal skulls from the Vindija cave site in Croatia are between 28,000 and 29,000 years old. The new dates refute previous evidence indicating central European Neandertals had disappeared 34,000 years ago.

Neandertals are commonly portrayed as prehistoric humans of limited capabilities who were rapidly replaced and driven to extinction by superior early modern humans, once the latter appeared in Europe. Scientists

surmised that early modern humans from the Near East moved first into central Europe and then into western Europe, pushing Neandertals into the Iberian Peninsula at the southwest corner of the continent, where the Neandertals died off about 30,000 years ago.

The new radiocarbon dates not only dispute this pattern of Neandertal migration and extinction, but also question a study in which scientists compared the DNA of a Neandertal with the DNA of contemporary humans. Published two years ago, the study concluded that Neandertals and early modern humans probably didn't interbreed.

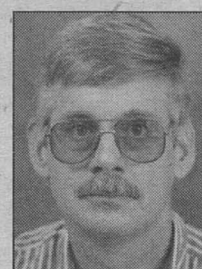
Conversely, last year's discovery in Portugal of an early modern human child with distinctive Neandertal characteristics, published by Trinkaus and European colleagues in PNAS in

June 1999, strongly supports the conclusion that Neandertals and early modern humans both could and did mate when they came into contact.

"Not only do we have the skeleton of a child in Portugal showing characteristics of common descent, but now we have evidence of the two groups coinciding in central Europe for several millennia, allowing plenty of time for the populations to mix," Trinkaus said.

The new Croatian findings also raise the question of who created the ancient tools unearthed at the

See **Neandertal**, page 2



**Trinkaus** New data about Neandertals

## Rare Mozart, Beethoven works acquired by library

By CHRISTINE FARMER

**A** rare collection of first and early printed editions of music by Mozart and Beethoven has been acquired by the University's Gaylord Music Library. An exhibition, which runs through Jan. 7, and a recital at 7:30 p.m. Friday, Oct. 29, mark the acquisition.

"This is a tremendous acquisition — the kind that has 1,001 uses," said Brad Short, music librarian. "It will continue to be exceedingly important for scholarly research as well as practical uses."

The rare printed scores are invaluable for those interested in music source studies, music printing and the way music was published and distributed.

"Washington University is

proud to be a central location for the pursuit of Mozart and Beethoven research in the coming years," said Hugh Macdonald, Ph.D., the Avis Blewett Professor of Music and chair of the Department of Music in Arts & Sciences.

Alan Tyson, an eminent British musicologist known for his study of watermarks and of the compositional practices of the two Viennese composers, assembled the collection. The University purchased it from him.

"This is the first time in more than two decades that the Gaylord Music Library has made a purchase of this magnitude," said Nathan Eakin, library associate for reference and special collections.

Though all of the Mozart scores in the collection were published posthumously, many are nevertheless

See **Music**, page 5

## Course explores 'the history of everything'

By TONY FITZPATRICK

**S**ixty undergraduate students at Washington University will have the chance next spring to study evolution from multiple perspectives when they embark on "The Epic of Evolution."

Team-taught by three scientists in different disciplines, the 200-level course is cross-listed under biology, physics and earth and planetary sciences. Professors are Claude W. Bernard, Ph.D., professor of physics; Ursula W. Goodenough, Ph.D., professor of biology; and Michael E. Wysession, Ph.D., associate professor of earth and planetary sciences.

Bernard brings his expertise in physics, Goodenough her insight into cell and molecular biology and Wysession his knowledge of geophysics to the

course. The idea is for students to contemplate the wide arch of evolution from the "Big Bang" and the subsequent expansion of the universe to the origins and progression of life on Earth.

Students will take mid-term and final exams and write a paper. The tests will deal strictly with the science; in the paper, each student will bring together an understanding of some aspect of evolution with some aspect of human endeavor — for example, in religion, art, history, philosophy or culture. There will be three lectures per week, and the students will meet in three different discussion groups once a week, led by Heather Morrison, senior graduate student in philosophy.

Students will be assigned a wide range of cross-disciplinary readings from literature, philosophy and the sciences.

phy and the sciences.

"The course is doing two innovative things," Wysession said. "One, we have three different scientists telling three different views of the evolution of our world — on a universe scale, a planet scale and in terms of basic life on Earth. We are telling the story weaving in all three aspects. This isn't done anywhere else to our knowledge."

"The second innovation is fusing evolution with culture and society. It's rare for scientists to attempt to bridge that gap. Inherently, scientists refrain from speculation or implication beyond their specialty."

The course, however, is predicated upon presenting the science of evolution along with challenging students to interpret the ways evolution has impacted

See **Evolution**, page 7



**Michael E. Wysession, Ph.D. (left), Ursula W. Goodenough, Ph.D., and Claude W. Bernard, Ph.D. (right)** keep company with Charles Darwin at the St. Louis Zoo. The three professors are offering an interdisciplinary course titled "The Epic of Evolution."





**Ouch** Sophomore Kara Chan receives a flu shot from Health Services nurse Cathy Vander Pluym during Health Fair '99 at Mallinckrodt Center Friday, Oct. 22. The fair offered blood pressure, heart rate, dental care and vision screenings, diet analysis and other health resources.

## Fields

### American studies expert in new chair

— from page 1

holder of the Harvey Chair."

The Harvey Chair was established in 1998 by a gift from alumnus Lynne "Angel" Cooper Harvey. For more than 35 years, Harvey has worked in close collaboration with her husband, Paul, as writer, editor and producer of "Paul Harvey News and Comment," one of the most listened-to shows in radio history.

"Angel Harvey's splendid gift to establish this professorship marks a significant moment in the development of the American Culture Studies Program," said Macias. "I am enormously grateful for her interest and generosity and am particularly delighted that Wayne Fields will be the first holder of the Harvey Chair.

"Wayne is a superb scholar, writer and teacher. He is also a trusted adviser, helping us to think in new ways about Arts & Sciences, what we want to accomplish in the years to come and how we can take fullest advantage of the many benefits that we enjoy here at Washington University. Wayne and Angel share an abiding interest in American literature and culture, and Arts & Sciences owes a great debt to both of them."

Fields is a nationally known expert on American literature, non-fiction prose, rhetoric and American political argument. His books include "James Fenimore Cooper: A Collection of Critical Essays" (1979); "What the River Knows: An Angler in Midstream" (1990), a highly acclaimed non-fiction book about fly-fishing, the mysteries of rivers and the uncertainties of life's second half;

and "The Past Leads a Life of Its Own" (1992), a collection of pieces about American boyhood.

His "Union of Words: A History of Presidential Eloquence" (1996) examined the use of rhetoric in presidential speeches, from declarations of candidacy to nomination acceptances, inaugural addresses, state-of-the-union speeches, declarations of war, executive farewells and other special addresses.

Fields' opinions are frequently sought by the national media to help interpret political speeches. He has served as a commentator

served on numerous academic and advisory committees, including the Arts & Sciences Academic Planning Committee, the school's Faculty Council and the Task Force on Undergraduate Curriculum, which recently issued recommendations for revising the Arts & Sciences undergraduate course of study. He also has received numerous teaching awards, including the Faculty Award for Excellence in Teaching, a Founders Day Faculty Award, the Burlington-Northern Teaching Award, a University College Teaching Award and the Interfraternity Council Excellence in Teaching Award.

Fields was a fellow of the National Humanities Institute at Yale University in 1976-77 and a Fulbright-Hays Lecturer in American Literature at the University of Copenhagen in fall 1980, a McGee Professor of Writing at Davidson College in spring 1990 and a Lamont Visiting Professor of Literature at Union College in spring 1995.

Harvey earned bachelor's and master's degrees from the University, both in English. In her three and a half decades with the Paul Harvey show, the broadcast has grown and prospered and now can be heard three times daily on nearly 1,500 ABC network affiliates and an additional 400 radio stations abroad. In 1997 she was inducted into the Radio Hall of Fame at Chicago's Museum of Broadcast Communications.

In honor of her outstanding achievements, Harvey received the University's Distinguished Alumni Award at Founders Day in 1997 and an honorary Doctor of Humanities degree at Commencement in 1998. She is a life patron of the William Greenleaf Eliot Society and a generous supporter of the Arts & Sciences Scholarship Program.

### "Wayne and Angel share an abiding interest in American literature and culture, and Arts & Sciences owes a great debt to both of them."

EDWARD S. MACIAS

for National Public Radio, Radio Free Europe and various television and radio network programs, and for five years wrote a regular column, "Close to Home," for St. Louis Magazine.

Fields earned a bachelor's degree in literature from Augustana College in 1964. He earned a master's degree the following year and a doctorate in 1972, both from the University of Chicago. He came to Washington University in 1968 as an instructor of English and was named assistant professor in 1971, associate professor in 1977 and full professor in 1991.

Fields served as acting chair of the Department of English in 1987-88 and chair from 1989 to 1992. He was director of the Master of Liberal Arts Program from 1986 to 1992 and dean of University College in Arts & Sciences from 1992 to 1996. He has been director of the American Culture Studies Program, which he helped develop, since 1996.

Over the years, Fields has

## Law professor argues Supreme Court case

By ANN NICHOLSON

In his campaign-finance case before the U.S. Supreme Court, the most difficult aspect for Law Professor D. Bruce La Pierre, J.D., has been not matching wits with legal giants during oral argument but rather the waiting game that has ensued.

Having argued in favor of an appeals court decision striking down Missouri's contribution limits to political candidates, La Pierre officially has entered litigator's limbo. "Nobody knows when the Supreme Court decision will come down," said La Pierre, who opposes the limits. "There is nothing left that I can do. It's been a long haul, and I'm eager to see the outcome."

The nation's highest court receives petitions for thousands of cases each term, but takes on only a tiny percentage. La Pierre believes the campaign-finance case was ripe for review. The Supreme Court last fully considered the issue in 1976 in Buckley vs. Valeo, when it found "corruption and the appearance of corruption as a justification for regulating contributions to federal candidates," La Pierre said.

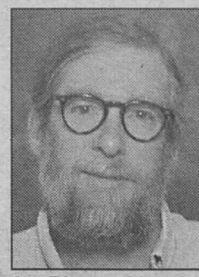
A seasoned litigator, La Pierre has argued many cases before appeals courts in seven different circuits. His recent first appearance before the U.S. Supreme Court was a career highlight, comparable to his experience brokering an initial settlement in the St. Louis Public Schools desegregation case in 1983. As the court-appointed special master, La Pierre hammered out the agreement implementing the voluntary interdistrict transfer program to address educational inequities.

"Appearing before the Supreme Court definitely ranks up there with settling the school desegregation case," La Pierre said. "The two together have been the most satisfying experiences in my career."

La Pierre views the current campaign-finance case, which is being closely watched by the political establishment, as a matter of protecting the fundamental First Amendment right to political speech. Backers of the limits argue they prevent political corruption.

"Missouri has no evidence that campaign contributions cause any 'real harm,'" La Pierre

said. "In the absence of harm, there is no warrant to restrict the most important of First Amendment rights — political speech and association."



**La Pierre:** Now in 'litigator's limbo'

By all accounts, the Supreme Court could easily come down either way. The case has drawn a lot of interest, in part because it could have repercussions for similar limits in roughly a dozen other states as well as for federal limits.

In 1994, the Missouri legislature and voters approved separate amendments to the state's Campaign Finance Disclosure Law. The amendments included the state's first ever limits on campaign contributions to state and local candidates. La Pierre has been heavily involved in the case since 1995, when he persuaded the U.S. Court of Appeals for the Eighth Circuit to overturn the amendments' expenditure limits.

In the most recent phase, La Pierre represents the political action committee Shrink Missouri Government and Zev

**"It's a live, on-stage, unrehearsed performance. If you like your adrenaline to run, it's an invigorating experience."**

D. BRUCE LA PIERRE

David Fredman, a 1998 Republican primary state auditor candidate, in their challenge to the legislative amendment, Senate Bill 650. The current contribution limits are \$275, \$525 and \$1,075, depending upon the size of the population represented and the particular political office. Last year, the Court of Appeals found these limits unconstitutional, paving the way for the state's appeal to the U.S. Supreme Court.

Before his debut in the high court, La Pierre had contemplated hundreds of possible questions and tested his arguments before three moot courts of law professors and former court clerks. He also had filed several briefs, written a law review article and delivered lectures on the topic in addition to arguing the case before the Court of Appeals. Preparation, anticipation and a healthy dose of adrenaline ultimately carried him through his 30 minutes of oral argument before the Supreme Court.

"It was a tremendous experience. I enjoyed the exchange of questions and answers," La Pierre said.

As the respondent in the case, La Pierre said he benefited from being able to argue second. While the nine justices were peppering Missouri Attorney General Jay Nixon with questions, La Pierre was taking careful notes to determine what the particular justices' concerns were.

"You try to figure out what is troubling the court and then respond," La Pierre said. "It's a live, on-stage, unrehearsed performance. If you like your adrenaline to run, it's an invigorating experience."

La Pierre even welcomed the now often-quoted question by Justice Stephen Breyer — whether Ebenezer Scrooge should be allowed to donate \$15 million to a favored candidate.

Now, as he awaits the decision, La Pierre wouldn't mind a visit from the Ghost of the Supreme Court Yet to Come.

## Neandertal

### Mixed, perhaps mated with early humans

— from page 1

Vindija cave site, located about 34 miles north of the Croatian capital of Zagreb. Neandertals are commonly associated with relatively crude stone tools, while early modern humans made more sophisticated stone and bone tools. The Vindija site produced both kinds of tools, including a beveled bone probably used as the tip of a spear.

"The multiple millennia involved leave open who, Neandertals or early modern humans, were the manufacturers of the early upper Paleolithic

cultural complexes, including the Aurignacian with its elaborate hunting weaponry, abundant body decoration and representational art," Trinkaus said. "These considerations should renew interest in deciphering the detailed processes that were involved when Neandertals and early modern humans encountered each other in the Late Pleistocene."

Trinkaus and paleontologist Fred H. Smith, chairman of the Anthropology Department at Northern Illinois University, conceived of the research project, secured permission for dating of fossils and assembled the research team. Other team members are Ivor Karavanic at the University of Zagreb and Maja Paunovic of the Croatian Academy of Sciences.

## Record

Washington University community news

### News & Comments

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**Washington**  
WASHINGTON UNIVERSITY IN ST. LOUIS

Record (USPS 600-430; ISSN 1043-0520), Volume 24, Number 10/Oct. 28, 1999. Published for the faculty, staff and friends of Washington University. Produced weekly during the school year, except school holidays, and monthly during June, July and August by the Office of Public Affairs, Washington University, Campus Box 1070, One Brookings Drive, St. Louis, Mo. 63130. Periodicals postage paid at St. Louis, Mo.

Where to send address changes, corrections: Postmaster and non-employees Record, Washington University, Campus Box 1070, One Brookings Drive, St. Louis, Mo. 63130.

Hilltop Campus employees Office of Human Resources, Washington University, Campus Box 1184, One Brookings Drive, St. Louis, Mo. 63130.

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# Medical School Update

## New strategy?

### Pathway might provide target for treating chronic pain

By JIM DRYDEN

Researchers have found that cells in the spinal cord can transmit sensations of pain through a network of cellular receptors not previously associated with pain. This network might be responsible for transmitting chronic pain, and blocking its activity might provide a new strategy for pain management.

Scientists from Washington University School of Medicine and Howard Hughes Medical Institute investigators at Massachusetts General Hospital and Harvard Medical School report this finding in the November issue of *Nature Neuroscience*. They say serotonin — a neurotransmitter in the central nervous system (CNS) — and a cell-surface receptor called AMPA can activate silent synapses in the CNS. These synapses — junctions between nerve cells — then transmit pain signals even when no painful stimulus is present.

“Most pain medications target signals carried through a different system of receptors, so they have little or no effect on chronic pain signals transmitted at AMPA receptor sites,” said Min Zhuo, Ph.D., the study’s principal investigator and an assistant professor of anesthesiology and neurobiology at the School of Medicine.

When we encounter a painful event, receptors on the skin, muscle or internal organs trigger an electrical impulse that travels along a nerve fiber to the dorsal horn of the spinal cord. That fiber connects with a nerve cell that passes the pain signal up the spinal cord to the brain. Because the signals cross junctions — synapses — on their way to the brain, they can be modified en route. Silent synapses provide a second network of junctions that normally are not used but through which pain signals can travel to the brain.

In past experiments, Zhuo and Ping Li, M.D., a research associate in anesthesiology, showed that the silent synapses could be activated

both by strong pain signals and by messages from a brain region called the rostroventral medulla (RVM), which sends chemical signals to the dorsal horn of the spinal cord. But little was known about what happens inside a nerve cell when a silent synapse is activated.

In the current study, they found that activation of silent synapses involves an interaction between AMPA receptors and a protein called glutamate receptor interacting protein (GRIP).

**“The more of these targets we can identify, the greater the odds we can find medicines to help patients who are not helped by traditional drugs.”**

MIN ZHUO

“One hypothesis is that GRIP binds at an AMPA receptor site inside the cell,” Zhuo said. “Then, under certain conditions, the receptor moves itself to the synaptic part of the neuron.

That activates the formerly silent synapse.”

Receptors at synapses receive messages from other neurons. AMPA receptors are sensitive to a brain chemical called glutamate.

“AMPA receptors are highly dynamic,” said co-investigator Morgan Sheng, M.D., Ph.D., associate professor of neurobiology at Massachusetts General Hospital and Harvard Medical School and assistant investigator with the Howard Hughes Medical Institute. “They can be recruited to and removed from the synapse. It’s a marvelously simple way to regulate synaptic strength. You silence a synapse by taking away receptors and strengthen it by adding more receptors.”

Zhuo compares the process to an overnight courier service. Each evening, many packages come in. But the next morning, those packages go back out, allowing the office to maintain a balance between arriving and departing packages. Too many arrivals or too few departures leads to a buildup of packages at the office and also can harm businesses that don’t receive them on time.

The balance between adding and subtracting AMPA receptors appears to play a role in chronic pain. Most people don’t suffer from chronic pain because silent synapses remain silent under normal conditions. The GRIP protein recruits AMPA receptors and activates silent synapses only

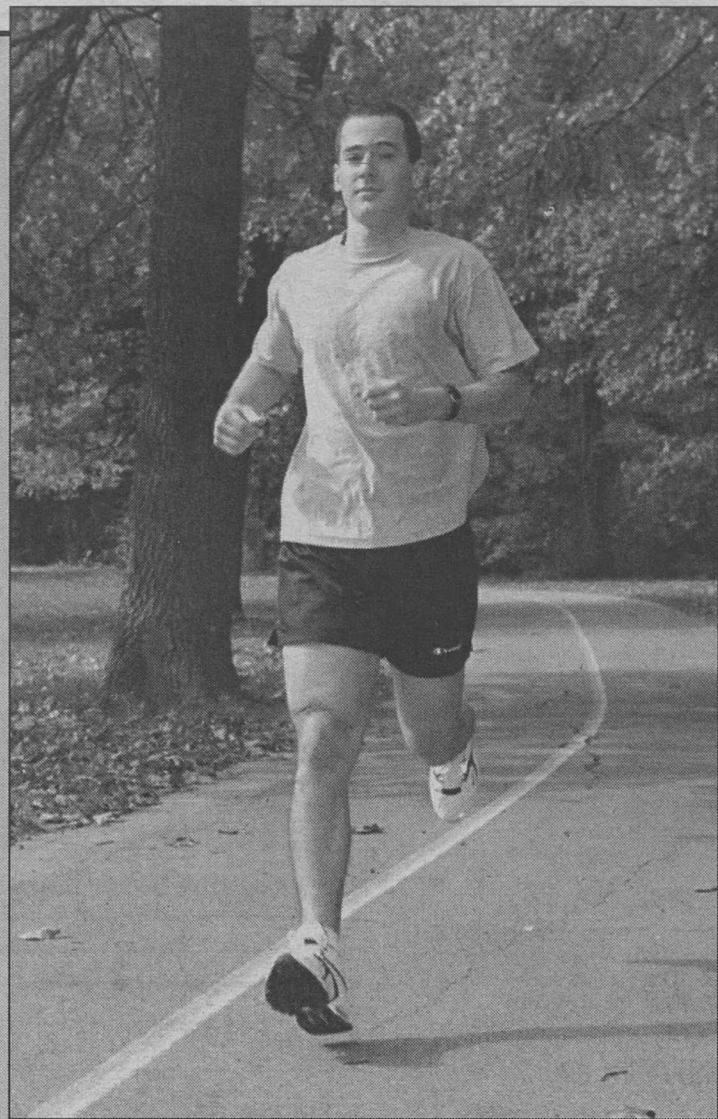
when the chemical messenger serotonin is released by nerve fibers descending from the brain.

In these experiments, Zhuo, Sheng and colleagues manufactured a protein fragment, called a peptide, to compete with GRIP at AMPA receptors in neurons. When that synthetic peptide bound to the receptors, the latter were unable to move to the synaptic site, and the silent synapse remained silent. The cells maintained their normal conversations with other neurons, however.

“That means it may be possible to prevent or reverse the activation of silent synapses without affecting other communications between neurons as a strategy for treating chronic pain,” Zhuo said.

Treatment methods might include blocking serotonin on the outside of the cell or using peptides to inhibit the interaction between GRIP and AMPA inside the cell. Another strategy could involve a substance called protein kinase C (PKC). Like serotonin, large quantities of PKC can activate silent synapses. In these experiments, Zhuo and colleagues have shown that PKC activates silent synapses via the AMPA receptor, providing two potential targets for therapy.

“I think this study really supports the idea that pain can be caused by pathways that normally are not painful,” Zhuo said. “The more of these targets we can identify, the greater the odds we can find medicines to help patients who are not helped by traditional drugs.”



**Running for the Leukemia Society** Second-year medical student Sami Barmada trains in Forest Park for an upcoming Leukemia Society of America marathon in Hamilton, Bermuda. Barmada, who began training for the Jan. 16 marathon last month, will eventually run 40 miles a week. He and his teammates each hope to raise \$3,500, which will benefit a 6-year-old boy with leukemia. If you are interested in making a donation, please send an e-mail to [barmadas@medicine.wustl.edu](mailto:barmadas@medicine.wustl.edu).

## David Clifford becomes Seay Professor

By LINDA SAGE

David B. Clifford, M.D., professor of neurology and vice chairman of the Department of Neurology, has been named the Seay Professor of Clinical Neuropharmacology in Neurology. Clifford also is the medical director for neuro-medicine at Barnes-Jewish Hospital.

Chancellor Mark S. Wrighton and William A. Peck, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine, announced the appointment. “We are grateful that Asa Forest Seay Jr. and Melba Spellmeyer Seay established this chair in 1975,” Wrighton said. “Their gift has a lasting impact on the University’s ability to attract and retain outstanding faculty in this field.”

Peck said: “David Clifford has mobilized researchers around the nation to fight the neurological complications of AIDS. This appointment will facilitate the continuation of this important work.”

Dennis W. Choi, M.D., Ph.D., the Andrew B. and Gretchen P. Jones Professor and head of neurology, also expressed enthusiasm for the appointment. “David embodies the best qualities found in the best faculty members at the best medical schools,” Choi said. “He is an outstanding clinical neurologist, a nationally prominent investigator and a renowned clinical teacher who has effectively directed our department’s residency program for many years.”

Clifford studies the neurological disorders that affect more than half of AIDS patients. The painful symptoms might be caused by the virus itself, by pathogens that take advantage of



**Clifford:** Studies AIDS complications

a weakened immune system or by the drugs that keep AIDS patients alive. To address these issues and test potential treatments, Clifford established the Neurologic AIDS Research Consortium in 1993 with a grant from the National Institute of Neurological Disorders and Stroke (NINDS). A five-year \$7 million grant from

NINDS in 1997 now supports the research. As director of the consortium, Clifford coordinates studies at 26 institutions across the nation. “This network can respond quickly as viral evolution and new treatments alter the spectrum of symptoms,” he said.

The consortium is determining whether HIV in the brain evolves separately from HIV in the rest of the body. This critical aspect of the biology of the infection impacts treatment strategies and has the potential to produce different patterns of drug resistance. The consortium also has a mandate to coordinate many of the nation’s trials of drugs for AIDS-related disorders of the nervous system.

Clifford is testing a potential new treatment for distal sensory neuropathy, the most common neurological complication of AIDS. The disorder starts in the feet as burning, aching and stabbing and eventually spreads to the hands. “Our dream is to find a way to encourage the regeneration of damaged nerves so they function normally without causing pain,” Clifford said.

He also is studying AIDS dementia, which involves both cognitive and motor difficulties.

The disorder develops in about 20 percent of AIDS patients but is likely to become more common as survival times increase.

A third trial focuses on progressive multifocal leuko-encephalopathy (PML), which develops when a virus called the JC virus infects the brains of immunocompromised patients. About 5 percent of people with AIDS develop this multiple sclerosis-like disease. The researchers are testing a drug called cidofovir, an anti-viral agent currently used in the eye.

Clifford obtained a bachelor’s degree from Southwestern University in Georgetown, Texas, in 1971. He earned a medical degree from Washington University in 1975, winning the Carl F. and Gerty T. Cori Prize for Biochemistry in his first year. After an internship and residency at Barnes Hospital, he did a postdoctoral fellowship at the medical school from 1980 to 1981. He joined the faculty as a research instructor in neurology that June, attaining the rank of professor by 1994. He also is director of residency training in the neurology department and clinical representative to the executive faculty at the medical school.

James A. Ferrendelli, M.D., now head of neurology at The University of Texas-Houston Medical School, was the previous Seay Professor. The chair was established in 1975 by Asa Forest Seay Jr., a Ralston Purina executive, and his wife, Melba Spellmeyer Seay. In 1980, Melba Seay also established the Seay Neuropharmacology Research Fellowship Endowment Fund to support training in neuropharmacology. Asa Seay died in 1978, and Melba Seay died in 1998.

## Chung named assistant dean for admissions and student affairs

Koong-Nah Chung, Ph.D., instructor of cell biology and physiology, has been named assistant dean for admissions and student affairs.

Chung’s appointment was announced by William A. Peck, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine. Chung is replacing Richard W. Brand, D.D.S., who retired in June.

“We are pleased that Dr. Chung has accepted this important responsibility,” Peck said. “She brings significant talent to our admissions and student affairs activities.”

Chung will play an important role in several areas of student support services, including medical school admissions and students affairs. She will serve as a resource for applicants and teachers and provide support for

student programs, such as medical students’ selective courses and summer research fellowships.

Chung received a bachelor’s degree in biology from the University of Michigan in Ann Arbor in 1980 and a doctorate in molecular biology and biochemistry from Washington University School of Medicine in 1986.

After completing a postdoctoral fellowship at the University of California, Berkeley, and a senior staff fellowship at the National Cancer Institute, Chung joined Washington University in 1996 as a research assistant professor.

In 1995, she received the Young Investigator Award from the Society of Biomedical Research.

She studies the role of cell membrane structures called caveolae in cholesterol trafficking.



**Chung:** Researches cholesterol trafficking



# University Events

## Evolution • Child Abuse • Zen Genetics • Ukraine • Liederabend

"University Events" lists a portion of the activities taking place at Washington University Oct. 28–Nov. 6. For a full listing of medical rounds and conferences, see the School of Medicine's website at [medschool.wustl.edu/events/](http://medschool.wustl.edu/events/). For an expanded Hilltop Campus calendar, go to [www.wustl.edu/thisweek/thisweek.html](http://www.wustl.edu/thisweek/thisweek.html).

### Exhibitions

**"Coins from St. Louis Collections."** Through Dec. 12. Gallery of Art. 935-4523.

**"Egyptian Mummies: Pet Menekh and Henut-Wedjebu."** Through Dec. 12. Gallery of Art. 935-4523.

**"Wolfgang and Ludwig — As Heard by Their Friends."** Featuring first and early printed editions of music by Mozart and Beethoven. Through Jan. 7. Fifth floor, Olin Library. 935-5495.

### Film

#### Thursday, Oct. 28

**7 and 9 p.m. Filmboard Foreign and Classic Series.** "North by Northwest." Cost: \$3 first visit, \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

#### Friday, Oct. 29

**7 and 9:30 p.m. Filmboard Feature Series.** "Scream." (Also Oct. 30, same times, and Oct. 31, 7 p.m.) Cost: \$3 first visit, \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

**Midnight. Filmboard Midnight Series.** "Afterhours." (Also Oct. 30, same time, and Oct. 31, 9:30 p.m.) Cost: \$3 first visit, \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

#### Wednesday, Nov. 3

**6 p.m. Chinese Film Series.** "Eat, Drink, Man, Woman." Room 219 S. Ridgely Hall. 935-5156.

**7 and 9 p.m. Filmboard Foreign and Classic Series.** "The Big Sleep." (Also Nov. 4, same times.) Cost: \$3 first visit, \$2 subsequent visits. Room 100 Brown Hall. 935-5983.



#### Friday, Nov. 5

**7 and 9:30 p.m. Filmboard Feature Series.** "A Simple Plan." (Also Nov. 6, same times, and Nov. 7, 7 p.m.) Cost: \$3 first visit, \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

**Midnight. Filmboard Midnight Series.** "Murder by Death." (Also Nov. 6, same time, and Nov. 7, 9:30 p.m.) Cost: \$3 first visit, \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

## Pair of readings bring poet, novelist to campus

BY LIAM OTTEN

The Creative Writing Program in Arts & Sciences will present a pair of readings by writers whose respective stars are lately on the rise. Twenty-something author Calvin Baker will read from his first novel, "Naming the New World," Thursday, Oct. 28, and poet Sherod Santos, nominated last week for the 1999 National Book Award, will read from his work Thursday, Nov. 4. Both events take place at 8 p.m. in Hurst Lounge, Room 201 Duncker Hall.

"Rod's is a poetry of patient meditation: on loss, on quiet joy, on the accident that is what it is to be human," said Carl Phillips, associate professor of English and African and Afro-American studies. "The poems are unflinching in their honesty, hard to match for sheer beauty, not to mention their technical virtuosity. Santos is a wonderful poet whose nomination for the National Book Award has long been deserved."

Santos was nominated for his latest collection, "The Pilot Star Elegies," which was published earlier this year. His previous volumes are "Accidental Weather," "The Southern Reaches" and "The City of Women." His work has garnered wide recognition and numerous awards, including an appointment as the Robert Frost Poet at the Frost House in Franconia, N.H. He is a professor of English at the University of Missouri—Columbia. Winners of the 1999 National Book Awards will be announced Nov. 17.

Baker was born in 1972 and raised in Chicago. In 1994 he graduated magna cum laude from Amherst College in Massachusetts. The previous year he had lived in



**Santos:** Nominated for book award

Kenya, working in theater. On graduation Baker worked as a newspaper reporter and then as a staff writer for People Magazine, where he continues today. His first novel, "Naming the New World," was published in 1997.

"As he traces the particular course of African Americans from Africa in the time of American slavery to contemporary America, Baker renders history into an epic and produces a book as resonant as myth," Phillips observed. "He is a stunning writer — one of the most exciting of his generation — not least because of his awareness that art, passion and intellect need not be strangers to one another."

Both readings are free and open to the public and will be followed by book signings, where copies of the authors' works will be available for purchase. For more information, call 935-7130. Baker's visit is co-sponsored by the Department of English and the African and Afro-American Studies Program, both in Arts & Sciences.

### Lectures

#### Thursday, Oct. 28

**Noon — 1 p.m. Genetics seminar.** "RNA Structure and Evolution." Elisabeth Tillier, U. of Toronto. Room 823 McDonnell Medical Sciences Bldg. 362-7072.

**4 p.m. Cardiovascular research seminar.** "Gap Junction Remodeling in Cardiac Hypertrophy and Failure." Jeffrey E. Saffitz, the Paul E. Lacey and Helen Lacey Prof. of Pathology and prof. of medicine. Room 801 Clinical Sciences Research Bldg. 362-8901.

**4 p.m. Physics seminar.** "High Resolution NMR in Dilute Liquid Crystals." Nico Tjandra, National Institutes of Health. Room 241 Compton Hall (coffee 3:45 p.m.). 935-6418.

**4:15 p.m. Philosophy–Neuroscience–Psychology Program lecture.** "In Defense of Materialism for Sensation." Brian McLaughlin, the Clark-Way Harrison Visitor and chair, philosophy dept., Rutgers U., N.J. Room 216 Psychology Bldg. 935-5119.

**4:30 p.m. Mathematics colloquium.** "Isospectral Riemannian Manifolds With Different Local Geometry." Carolyn Gordon, prof., Dartmouth College. Room 199 Cupples I Hall (tea 4 p.m. Room 200). 935-6726.

**5 p.m. Vision Science Seminar Series.** "Investigator Bias: Prevalence and Cure?" Mae E. Gordon, assoc. prof. of ophthalmology and visual sciences. East Pavilion Aud., Barnes-Jewish Hospital Bldg. 362-5722.

#### Friday, Oct. 29

**Noon. Cell biology and physiology seminar.** "Dynamins and Coated Vesicle Formation." Sandra L. Schmid, cell biology dept., Scripps Research Institute, Calif. Room 426

McDonnell Medical Sciences Bldg. 362-3964.

#### Monday, Nov. 1

**Noon. Lung biology conference.** "A Novel Macrophage Antimicrobial Protein in the Innate Immune System." William Hartzell, research associate, pulmonary and critical care medicine dept. Room 801 Clinical Sciences Research Bldg. 362-8983.

**Noon — 1 p.m. Molecular biology and pharmacology seminar.** "Difference Gel Electrophoresis: A Rapid Method for Detecting Proteome Changes." John S. Minden, assoc. prof. of biological sciences, National Science Foundation Science and Technology Ctr. for Light Microscope Imaging and Biotechnology, Carnegie Mellon U., Pa. Room 3907 South Building. 362-2725.

**2:15 p.m. Physics seminar.** "Measurement of the Modulus and Tensile Strength of Individual Carbon Nanotubes and Future Directions." Rodney S. Ruoff, assoc. prof. of physics. Room 241 Compton Hall (coffee 2 p.m.). 935-6276.

**4 p.m. Immunology Research Seminar Series.** "Human Epithelial Tumor Antigen MUC1: Antigenicity, Immunogenecity and Vaccine Design." Olivera Finn, dir., UPCI Immunology Program, molecular genetics and biochemistry dept., U. of Pittsburgh. Eric P. Newman Education Center. 362-2763.

**6:30 p.m. Germanic languages and literatures lecture.** "Gottes Griffel. Kleist und das Naturereignis." Franz Eybl, prof. of German, U. of Vienna, Austria. Hurst Lounge, Room 201 Duncker Hall. 935-5106.

#### Tuesday, Nov. 2

**Noon — 1 p.m. Molecular Microbiology and Microbial Pathogenesis Seminar Series.**

"Role of a Bacteriophage Regulatory Network in Shiga Toxin Expression." David Friedman, prof. of microbiology and immunology, U. of Mich. — Ann Arbor. Cori Aud., 4565 McKinley Ave. 362-2772.

**12:10 — 12:55 p.m. Physical therapy research seminar.** "X Marks the Spot: Sex-linked Transmission of the Shaker Mutation in Rats With Hereditary Purkinje Cell Degeneration and Ataxia." Ruth Clark, instructor of physical therapy. Classroom C, 4444 Forest Park Bldg. 286-1400.

**4 p.m. Anesthesiology research lecture.** "Memory of Pain in the Hippocampus." Min Zhuo, asst. prof. of anesthesiology and of anatomy and neurobiology. Room 5550 Clinical Sciences Research Bldg. 454-8560.

**4 p.m. Chemistry seminar.** "New Aspects of the Photochemical and Free Radical Reactions of Phosphites." Wesley G. Bentrude, prof. of chemistry, U. of Utah. Room 311 McMillen Hall (coffee 3:40 p.m.). 935-6530.

#### Wednesday, Nov. 3

**7:30 a.m. Orthopaedic surgery lecture.** "Child Abuse: Orthopaedic Perspective." Robert T. Paschall, asst. prof. of pediatrics. Scarpellino Aud., 510 S. Kingshighway Blvd. 747-2803.

**11 a.m. Assembly Series lecture.** "Serving With Integrity: The Challenges Facing Today's Public Servants." Carol Moseley-Braun, former U.S. senator. The Council of Students of Arts & Sciences Lecture. Graham Chapel. 935-5285.

**Noon — 1 p.m. Geriatrics and gerontology lecture.** "Hip Fractures and Their Prevention." Stanley Wiener, prof. of medicine, U. of Chicago. Room 216 West Building. 286-2714.

**4 p.m. African Studies Lecture Series.** "Religion and Questions of Ambivalence: Early Missionary Encounters in Central Kenya, 1908-1918." Derek Peterson, historian. Lambert Lounge, Mallinckrodt Center. 935-5690.

**4 p.m. Biochemistry and molecular biophysics seminar.** "Zen Genetics: Phylogenetic Diversity and the Structure of RNase PRNA." Norman R. Pace, prof. of molecular, cellular and developmental biology, U. of Colo. — Boulder. Cori Aud., 4565 McKinley Ave. 362-0261.

**5:15 p.m. Pediatrics lecture.** "Surfactant Protein-B Deficiency — Insights Into Inherited Disorders of Surfactant Metabolism." Aaron Hamvas, assoc. prof. of pediatrics. Room 36, third floor south, St. Louis Children's Hospital. 747-0739.

**7:30 p.m. School of Art Lecture Series.** Carolee Schneeman, multimedia artist. Co-sponsored by the Saint Louis Art Museum. Steinberg Hall Aud. 935-6500.

#### Thursday, Nov. 4

**Noon. Genetics lecture.** "Development and Evolution of the Insect Wing." Georg Halder, U. of Wis. Room 823 McDonnell Medical Sciences Bldg. 362-7072.

**4 p.m. Chemistry seminar.** "Pentagons and Hexagons and Squares, Oh My! Understanding Polymorphism in Coordination Polymers." Steven W. Keller, chemistry dept., U. of Mo. — Columbia. Room 311 McMillen Hall (coffee 3:40 p.m.). 935-6530.

## 'Evening of song' offered Oct. 31

The Departments of Music and Germanic Languages and Literatures, both in Arts & Sciences, will present their annual *Liederabend* at 4 p.m. Sunday, Oct. 31. The concert is free and open to the public and will take place in Steinberg Hall Auditorium.

Literally translated as "evening of song," *Liederabend* is a German term referring to a recital given by a singer and pianist, particularly of works by 19th-century composers.

The performance will feature bass baritone Ronald Hedlund, professor of voice and director of the Voice Division at the University of Illinois, Urbana-Champaign. Hedlund will be joined by pianist Henry Palkes, accompanist in the music department here. The program will include the music of Brahms, Mahler, Strauss, Ives and Griffes.

For more information, call 935-4841.

#### 4 p.m. Cardiovascular research seminar.

"Detection of the Fingerprint of the Electrophysiological Abnormalities That Increase Vulnerability to Sustained Ventricular Arrhythmias." Michael E. Cain, the Tobias and Hortense Lewin Prof. of Cardiovascular Diseases. Room 801 Clinical Sciences Research Bldg. (North Tower). 362-8901.

#### 4:30 p.m. Mathematics colloquium.

Philippe Barbe, prof. of mathematics, Yale U. Room 199 Cupples I Hall (tea 4:30 p.m. Room 200). 935-6753.

#### 4:15 p.m. Philosophy colloquium.

"An Interpretation of C.S. Pierce's Early Analysis of Experience." Dennis Knepp, philosophy graduate student. Room 216 Psychology Bldg. 935-6670.

**5 p.m. Vision science seminar.** "RPE Cell Culture and Transplantation in Pig." Morten D. La Cour, Panum Eye Inst., U. of Copenhagen, Denmark. East Pavillion Aud., Barnes-Jewish Hospital Bldg. 362-5722.

#### Friday, Nov. 5

**8 a.m. Arts & Sciences lecture.** "Successfully Competing in Today's and Tomorrow's Global Economy." J. Michael Losh, executive vice president and chief financial officer, General Motors (continental breakfast, 7:30 a.m.). Goldfarb Aud., Room 162 McDonnell Hall. For reservations, call 935-8003.



**Noon. Cell biology and physiology seminar.** "Chromosome and Spindle Dynamics in Yeast." Kerry Bloom, biology dept., U. of N.C. — Chapel Hill. Room 426 McDonnell Medical Sciences Bldg. 362-3964.

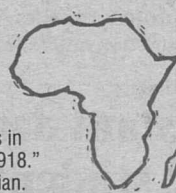
## Lutheran campus ministry marks Reformation Day

A Reformation Choir Festival at 3 p.m. Sunday, Oct. 31, in Graham Chapel will mark Reformation Day for the Lutheran Campus Ministry. Six choirs from area Lutheran churches will sing, and the festival also will include favorite Reformation hymns for congregational singing.

The combined choirs will sing "Psalm 46" by John Ness Beck. Participating choirs come from churches in University City, Kirkwood, Town and Country and Bel Nor, Mo., and Belleville, Ill.

Jeral Becker, coordinator of choir and instrumental music at Trinity Lutheran Church, Town and Country, and musical coordinator for the event, will direct the combined choirs. Stephen Mager, organist and music director at Bethel Lutheran Church, University City, will perform the prelude and postlude and accompany the choirs and congregational singing.

For more information, call 863-8140.





# Carol Moseley-Braun discusses public service

**F**ormer U.S. Sen. Carol Moseley-Braun will deliver an Assembly Series lecture at 11 a.m. Wednesday, Nov. 3, titled "Serving with Integrity: The Challenges Facing Today's Public Servants." The lecture, sponsored by the Council of Students of Arts & Sciences, is free and open to the public and will take place in Graham Chapel.

Moseley-Braun was the first African-American woman ever elected to the U.S. Senate. She was elected in 1992 and during her term supported a variety of legislative causes, including child care, women in business and education.

Since leaving public office, Moseley-Braun has served as a consultant for the U. S. Department of Education. President Clinton recently nominated her as ambassador to New Zealand.

Moseley-Braun introduced 14 separate bills during her tenure as a senator, more than half of which



Assembly Series

**Who** Carol Moseley-Braun

**Where** Graham Chapel

**When** 11 a.m. Wednesday, Nov. 3

**Admission** Free and open to the public

became law. The first, requiring Congress to disclose the costs of any unfunded federal mandates, became law in 1995. She initiated the Education Infrastructure Act as well, a first effort by the federal government to repair and renovate elementary and secondary school facilities and libraries. She also coordinated Project Synergy, a public/private partnership that introduced Chicago public school children to computers and technology donated by local companies.

Moseley-Braun was educated at the University of Illinois at Chicago and the University of Chicago Law School.

For more information, visit the Assembly Series web page (<http://wupa.wustl.edu/assembly>) or call 935-5285.



Hugh Macdonald, Ph.D., the Avis Blewett Professor of Music and chair of the Department of Music in Arts & Sciences, looks on as Seth Carlin, professor of piano, practices a piece from a recently acquired collection of first and early editions of Beethoven and Mozart.

## Music

### Rare Beethoven, Mozart works acquired

— from page 1

less first editions, because much of the composer's work went unpublished during his lifetime. The collection of Beethoven scores also includes several first editions, particularly of the composer's orchestral works and string quartets. Together, the collection documents the public reception of both composers' works between 1790 and 1830, the period during which they came to be seen as leading masters of their age.

The Olin Library Special Collections exhibit, "Wolfgang and Ludwig — As Heard by Their Friends," features a number of scores from the collection. It is free and open to the public. Special Collections is located on the fifth floor; hours are 8:30 a.m. to 5 p.m. Monday through Friday. For more information about the exhibit, call 935-5495.

"The exhibit offers examples of different types of music printing from the late 18th and early 19th centuries," Short said. "The various methods of typesetting are what also make this era unique. Some music was done with printsetting, others by lithograph, stamping, freehand, with copper engraving or burned in. There was a lot going on in the field of printing then, and by looking at the bindings you can also see how music was marketed and preserved."

The collection, which contains about 300 pieces, was obtained with Macdonald's help; he was a colleague of Tyson's at Oxford more than 20 years ago.

"When his collection became available I knew the dealer handling it in England," Macdonald said. "This material is a treasure. It brings the music of Mozart and Beethoven vibrantly to life."

At the Oct. 29 recital, Macdonald will open with a short commentary about Tyson, his achievements and the collection.

Seth Carlin, professor of piano in the music department, will

Music Recital

**Who** Lori Barrett-Pagano, Maryse Carlin, Seth Carlin, Beth Felice

**Where** Steinberg Hall Auditorium

**When** 7:30 p.m. Friday, Oct. 29

**Admission** Free and open to the public

perform works taken from the collection on the fortepiano. Lori Barrett-Pagano, soprano; Maryse Carlin, fortepiano, and Beth Felice, violin, also will perform. The program will include an arrangement of Mozart's overture to "The Marriage of Figaro" for four hands; Mozart's "Sonata for Violin and Fortepiano, K. 302"; and a group of Mozart's songs. The program also will feature Beethoven's "Sonata in D Major, op. 28," the "Pastorale."

The recital, which is free and open to the public, takes place in Steinberg Hall Auditorium. For more information about the concert, call 935-4841.



- 3 p.m. Economics lecture.** "Innovation and Urban Development." Will Strange, assoc. prof. of urban land economics and chair, urban land economics div., U. of British Columbia, Vancouver. 935-5670.
- 4 p.m. Anatomy and neurobiology seminar.** "Dissociation of Expectations From Attentional Modulations in the Human Brain." Maurizio Corbetta, asst. prof. of anatomy and neurobiology, of neurology and neurological surgery and of radiology. Room 928 McDonnell Medical Sciences Bldg. 362-7043.
- 4 p.m. Hematology research seminar.** "Gene Therapy for Lysosomal Storage Diseases." Mark S. Sands, asst. prof. of genetics and of medicine. Room 8841 Clinical Sciences Research Bldg. 362-8830.
- 6 and 8:30 p.m. Travel Lecture Series.** "Ukraine." Bob Willis. Cost: \$4.50. Graham Chapel. 935-5212.

### Saturday, Nov. 6

**9 a.m. Neuroscience Seminar Series.** "Visual Perception of 3-D Space: From Neurons to Behavior." Gregory C. DeAngelis, asst. prof. of anatomy and neurobiology. Cori Aud., 4565 McKinley Ave. 362-7043.

## Music

### Thursday, Oct. 28

**8:30 p.m. Holmes Jazz Series.** Scott Alberici Duo. Holmes Lounge, Ridgley Hall. 935-4841.

### Friday, Oct. 29

**7:30 p.m. Faculty recital.** Hugh Macdonald, the Avis Blewett Prof. and chair, music dept., introduction; Seth Carlin, prof. of music, fortepiano; Lori Barrett-Pagano, soprano; Maryse Carlin, fortepiano; and Beth Felice, violin. Music of Mozart and Beethoven. Co-sponsored by Olin Library and the music dept. Steinberg Hall Aud. 935-4841.

### Sunday, Oct. 31

**4 p.m. Recital.** *Liederabend.* Music of Brahms, Mahler, Strauss, Ives and Griffes. Ronald Hedlund, bass baritone and Henry Palkes, piano. Co-sponsored by the Germanic languages and literatures and music depts. Steinberg Hall Aud. 935-4841.

### Thursday, Nov. 4

**8:30 p.m. Holmes Jazz Series.** Paul DeMarinis Trio. Holmes Lounge, Ridgley Hall. 935-4841.

## Performance

### Friday, Oct. 29

**8 p.m. Performing arts dept. musical.** "The Pirates of Penzance." (Also Oct. 30, same time, and Oct. 31, 3 p.m.) Cost: \$10, \$8 WU students, faculty, staff, sr. citizens and children. Edison Theatre. 935-5858.

## Sports

### Saturday, Oct. 30

**1 p.m. Swimming and diving vs. U. of Mo. — Rolla and Ill. Wesleyan U.** Millstone Pool. 935-5220.

**1:30 p.m. Football vs. U. of Chicago.** Francis Field. 935-5220.



### Tuesday, Nov. 2

**7 p.m. Men's soccer vs. Webster U.** Francis Field. 935-5220.

### Saturday, Nov. 6

**1 p.m. WU All-divisions Diving Invitational.** Millstone Pool. 935-5220.

## And More...

### Thursday, Oct. 28

**7:30 a.m. Continuing Medical Education seminar.** "Contemporary Cardiothoracic Surgery." (Continues through Oct. 30.) Eric P. Newman Education Center. For cost and to register, call 362-6891.

# Dramaturg on campus Nov. 4-13 to work with student playwrights

By LIAM OTTEN

**L**iz Engelman, dramaturg and literary manager for Seattle's renowned A Contemporary Theatre (ACT), will be visiting dramaturg for the University's A.E. Hotchner Play Development Lab, sponsored by the Performing Arts Department (PAD) in Arts & Sciences.

Engelman will be on campus Nov. 4-13 and will work with several students on their plays in progress, including Sakena Abedin, winner of the 1999 A.E. Hotchner Playwriting Competition. Abedin's drama "Gitanjali" will debut next April in a full production directed by Henry I. Schvey, Ph.D., chair and professor in the PAD.

Engelman also will give a free talk on dramaturgy at 4 p.m. Friday, Nov. 5. The lecture — titled "Playwrights and Actors in New Play Development: Can't Live Without Them, Can't Shoot Them" — takes place in the A.E. Hotchner Studio Theatre, Mallinckrodt Center. For more information, call 935-5858.

"Liz is really a terrific dramaturg," said Carter W. Lewis,

the PAD's new playwright in residence, who manages the Hotchner competition. "She does what great dramaturgs do — that is, she works as the playwright's friend and adviser and asks the pertinent questions, which helps writers to clear their thinking."

Engelman has helped develop new plays for the Playwrights' Center in Minneapolis, the Bay Area Playwrights Festival in San Francisco and the New York Theatre Workshop and was reading series coordinator for the Civita Festival in Bagnoregio, Italy. She holds a bachelor's degree in theater and a master's degree in dramaturgy from Brown and Columbia universities, respectively.

The PAD currently is accepting submissions for the 2000 A.E. Hotchner Playwriting Competition. Two winners will be chosen, both of which will be workshopped the following fall and one of which will go on to receive a full production in spring 2001. Submissions are due by Jan. 24, 2000. For more information about the competition, call 935-5429.

## Sports Section

### Football Bears win

The football Bears defeated Carnegie Mellon University 24-7 Saturday, Oct. 23, capturing at least a share of the University Athletic Association (UAA) championship for the fourth time in six years. The Bears (6-2) improved to 3-0 in the UAA with one week remaining in the league season. Washington U. can claim sole ownership of the championship with a victory over the University of Chicago Sunday, Oct. 31 at Francis Field.

### Soccer claims title

The men's soccer team defeated Emory University 2-1 Sunday, Oct. 25, in overtime at Francis Field, improving their UAA record to 6-0-0 and claiming their sixth conference championship in 13 years. The victory capped a perfect 3-0 week for the Bears, who opened the week

with a 6-0 victory Oct. 19 over Principia College and beat New York University Friday, Oct. 22, 2-1.

### Women split two

The women's soccer team knocked off New York University, 2-1 in overtime Friday, Oct. 22, but lost 2-1 to Emory University Sunday, Oct. 24. The Bears are now 13-3 on the year and in third place in the UAA with a 4-2 record.

### Volleyball victorious

The volleyball team captured its second-straight tournament title with a win at the Washington University Midwest Invitational this weekend in the Field House. The Bears finished with a 4-0 record after defeating Thomas More College, 13-15, 15-6, 15-2, 15-6, and Illinois College, 15-6, 15-11, 15-0, Saturday, Oct. 23. The Bears had defeated Nebraska

Wesleyan University, 15-13, 15-4, 15-4, and Hope College, 15-7, 15-11, 15-5, Friday night.

### Runners second

The men's cross country team recorded its eighth top-five finish in as many meets this season, while the women's team posted its fifth top-five finish this season, as both teams took second place at the Washington University Mini Meet Saturday, Oct. 23, in Forest Park.

### Season opens

The men's swimming and diving team opened the season with wins over DePauw University, 134-20, and the University of Indianapolis, 148-73, Saturday, Oct. 23, at DePauw. The women's team fell to 0-2 on the year, losing to DePauw, 136-101, and Indianapolis, 132-72.





**Line dancing** Members of the Association of Black Students enjoy a Parents Weekend semi-formal dance in Holmes Lounge, Ridgley Hall, Saturday, Oct. 23.

## Employment

Use the World Wide Web to obtain complete job descriptions. Go to [cf6000.wustl.edu/hr/home](http://cf6000.wustl.edu/hr/home) (Hilltop) or [medicine.wustl.edu/wumshr](http://medicine.wustl.edu/wumshr) (Medical).

### Hilltop Campus

Information regarding positions may be obtained in the Office of Human Resources, Room 130, West Campus. If you are not a WU staff member, call 935-9836. Staff members call 935-5906.

#### Reading Specialist (part time) 980130

#### Medical Science Writer 980189

Director of Corporate Relations 990013  
Senior Project Leader 990029

Assistant Dean and Academic Coordinator 990210

Manager 990233

Gift Accountant 990244

Technical Secretary 990245

Director/Executive Faculty Liaison 990280

Computer Support Specialist 990283

Writing Lab Director 990298

Administrative Secretary 990315

Administrative Coordinator 990316

Curator, Modern Literature Collection/Manuscripts 990318

Administrative Secretary 990320

Senior Project Leader 990340

Administrative Assistant 990356

Administrative Assistant 990357

Administrative Assistant 990362

Engineering Librarian 990364

Investment Analyst 990369

Research Technician 000003

Counselor 000014

Admissions Counselor 000027

Mailroom Supervisor 000032

Systems Programmer I 000034

Support Services Assistant 000040

Senior Researcher 000046

Administrative Coordinator 000053

Regional Director of Development 000057

Purchasing Coordinator for Furniture and Design 000060

Director of Campus Police 000061

Coordinator, Corporate/Foundation Program 000063

Administrative Coordinator (part time) 000066

Technical Staff 000067

Assistant Director of BSBA Records and Advising Service 000069

Library Manager 000070

Administrative Secretary 000073

Public Service Coordinator 000077

Counselor 000080

Adviser to International Students (part time) 000086

Department Secretary 000088

Administrative Assistant 000089

Non-degree Program Administrator 000090

Assistant Dean and Academic Coordinator 000093

LAN Engineer Supervisor 000094

Administrative Secretary 000096

Custodian and Maintenance Assistant 000097

Research Assistant (part time) 000098

Library Assistant 000099

Library Assistant 000100

Insurance Assistant (part time) 000101

Secretary/Technical Typist 000102

Assistant Director of EMBA Admissions 000103

Audio Visual Coordinator/Event Support 000105

Sr. Information Systems Auditor 000106

Rare Books Curator 000107

Licensing Case Coordinator 000108

Secretary 000109

Executive Assistant 000111

Assistant Accountant II 000112

Media Center Director 000113

Secretary 000115

Head of Access 000116

Advertising Manager 000117

Assistant University Webmaster 000118

### Medical Campus

This is a partial list of positions at the School of Medicine.

Employees: Contact the medical school's Office of Human Resources at 362-7196. External candidates: Submit resumes to the Office of Human Resources, 4480 Clayton Ave., Campus Box 8002, St. Louis, MO 63110, or call 362-7196.

Coding Coordinator 991492

Nurse Practitioner 991525

Medical Transcriptionist 000167

Pre-certification Coordinator 000192

Professional Rater 1 (part time) 000299

Temporary Insurance Billing Clerk II 000501

Medical Secretary III 000546

Secretary I 000561

Medical Secretary I 000563

User Support Manager 000577

Carpenter/Door Hardware Technician 000583

User Support Analyst II 000628

Senior Research Technician 000630

Programmer I 000637

Lab Assistant I 000706

Supervisor, Clinical Office 000714

Patient Services Representative 000736

## Founders Day honors faculty, friends

**F**ive members of the faculty — Dana R. Abendschein, Ph.D., Kerry E. Back, Ph.D., Ronald S. Indeck, Ph.D., Lynne Tatlock, Ph.D., and Robert S. Wilkinson, Ph.D. — will receive Distinguished Faculty Awards at this year's Founders Day celebration Saturday, Oct. 30, at the America's Center, St. Louis. The awards are given for outstanding commitment and dedication to the intellectual and personal development of students.

Robert S. Brookings Awards also will be presented to Charles F. Knight and Earl E. and Myrtle E. Walker. The annual event is sponsored by the Alumni Board of Governors to commemorate the University's founding in 1853.

**Dana R. Abendschein** is associate professor of medicine and of cell biology and physiology at the School of Medicine. He teaches the cardiovascular and respiratory section in first-year physiology and is coursemaster for cardiovascular diseases in second-year pathophysiology.

He is principal investigator for a number of respiratory studies involving arterial response to injury, and he holds the patent for a new method of attenuating arterial stenosis after angioplasty. Abendschein has been a long-time member of the school's Animal Studies Committee and currently serves as its chair. His research has been published in a number of professional journals. For his teaching, Abendschein has received the Distinguished Service Teaching Award (three times), the Basic Science Lecturer of the Year and Professor of the Year, awarded by the Class of 1999.

Abendschein received a bachelor's degree in biology from the State University of New York at Fredonia and a doctoral degree in physiology from Purdue University. He joined the faculty here in 1983 as a research associate professor.

**Kerry E. Back** is the Vernon W. and Marion K. Piper Professor of Financial Economics in the John M. Olin School of Business. A leading financial theorist in investments, Back's research and writing focus on derivative securities and asset valuation. In addition to his teaching and research, Back also has served as associate dean for academic affairs since 1996.

On the business school faculty since 1989, Back received the Reid Teaching Award three consecutive years. He also has been honored with a Batterymarch Fellowship, which is awarded to the most promising young scholars in finance. He has served as editor of

the Review of Financial Studies and has been on the editorial boards of several professional journals.

Back graduated from Western Kentucky University in 1978 with a bachelor's degree and received a doctorate from the University of Kentucky in 1983. He previously taught at Indiana University, the University of Pennsylvania and Northwestern University.

**Ronald S. Indeck** is the professor of electrical engineering and director of the Magnetics and Information Science Center at the School of Engineering and Applied Science. He is an expert in magnetic information science and conducts research on magnetic information storage. His recent development of "smart" storage systems that employ adaptive processing and his discovery of magnetic "fingerprints" on items that use magnetic information are considered breakthrough technologies that can combat credit card fraud, which costs an estimated \$1 billion yearly in the United States.

His research has resulted in the creation of a dozen patents and the publication of more than 40 papers in technical journals.

Indeck received bachelor's, master's and doctoral degrees from the University of Minnesota. He joined Washington University in 1988 and was presented with a National Science Foundation Young Investigator Award in 1989 by then-President George Bush.

**Lynne Tatlock** is professor of Germanic languages and literatures in Arts & Sciences. From 1991 to 1997, she served as chair of the department, enhancing its current programs by creating interdisciplinary links across campus and developing new opportunities for the department's graduates.

Her teaching covers a wide range of subjects, from beginning German language classes to graduate seminars in 17th- and 19th-century German literature and culture. Her research and scholarship center on 19th-century German literary realism and historiography and 19th- and 20th-century journalism, narrative and literature.

Tatlock is the author of several publications, including "The Graph of Sex and the German Text: Gendered Culture in Early Modern Germany 1500 - 1700," as well as many literary translations. Tatlock currently serves as president of the American Association of Teachers of German and of the Society of German Renaissance and Baroque Literature.

Tatlock joined the faculty here after receiving bachelor's, master's and doctoral degrees at Indiana University.

**Robert S. Wilkinson** is associate professor of cell biology and physiology at the medical school. His research examines the relationship between synaptic structure and function in the neuromuscular junctions of the snake and organotypic hippocampal slice cultures from the rat.

Arriving at the University as a postdoctoral student in 1975, Wilkinson taught neuroscience courses and lectured in physiology. He is widely recognized by students and faculty alike for his teaching ability and has been honored 10 times in the last decade alone. These awards include the Distinguished Service Teaching Award, which he received for six consecutive years; Lecturer of the Year; and Professor of the Year for two years in a row. In 1998, Wilkinson was the first recipient of the Coursemaster of the Year award, created to recognize the effort of overseeing and organizing courses.

Wilkinson earned a bachelor's degree from Rice University and master's and doctoral degrees from the University of Texas.

The **Robert S. Brookings Award** is presented by the Board of Trustees to individuals who exemplify the alliance between the University and the community.

**Charles F. Knight** became chief executive officer of Emerson Electric Co. in 1973 and chairman of the board a year later. During his leadership, the company's sales have increased nearly ten-fold.

Knight's support for the University has been significant. He served on the Board of Trustees from 1977 to 1990. He also was chairman of a task force that recommended further improvements at the business school and helped raise funds to build the school's endowment. He was a key leader in the University's successful fund-raising campaign in the mid-1980s. Knight received the business school's dean's medal in 1993 and currently serves as chair of its National Council.

In 1997, Knight and Emerson Electric Co. made a \$15 million challenge grant to the school to benefit executive education initiatives. Construction has since begun on the Charles F. Knight Executive Education Center.

Knight helped form the alliance between Barnes Hospital and The Jewish Hospital of St. Louis, creating Barnes-Jewish Inc. in 1992. In 1993, he was instrumental in the formation of BJC Health System, served as system board chairman

See Founders, page 7

## Campus Watch

The following incidents were reported to University Police from Oct. 18-24. Readers with information that could assist in investigating these incidents are urged to call 935-5555. This release is provided as a public service to promote safety awareness and is available on the University Police Web site at [rescomp.wustl.edu/~wupd](http://rescomp.wustl.edu/~wupd).

### Oct. 18

8:16 a.m. — A painter reported the theft of a fan, valued at \$450, from the second floor of Wheeler Residential House.

### Oct. 21

4:08 p.m. — A staff member reported the theft of a tool box and tools from the Unit Operations Lab in Urbauer Hall. The loss was set at \$665.

### Oct. 23

11:54 a.m. — University Police responded to a report of the

theft of 30 to 40 chrysanthemums from a planter near Gregg House on the South 40. The next day, a University Police sergeant observed two males on the porch of Fraternity #6, one of whom had the mums. The subject ran from the area when he saw the officer.

*University Police also responded to three additional reports of theft, two reports of vandalism, two peace disturbances, two auto accidents, one report of drug use, one report of bad checks, a mail threat and a suspicious person.*



## Notables

### William Flannery, adjunct instructor in communications and journalism, dies

William J. Flannery, adjunct instructor in the Communications and Journalism Program of University College in Arts & Sciences, died Friday, Oct. 8, 1999, at Barnes-Jewish Extended Care Facility in Clayton after a brief illness. He was 49 and lived in Webster Groves, Mo.

Flannery taught at the University for 12 years, primarily courses on the history of American journalism, editorial writing and the history of propaganda.

"Bill was a mainstay of our program," said Fran Hooker, communications coordinator for the Communications and Journalism Program. "He was an old-style newsman — gruff, tough and very fair. He expected a lot from his students. He once told me that his primary aim was to teach them how to think for themselves. Bill was one of the highest-rated teachers we had, especially in the quality of feedback he gave students."

Flannery also was a business

reporter for the St. Louis Post-Dispatch. He joined the paper in 1981 as an editorial writer after working in Washington, D.C., and moved to the business department as a reporter in 1990. He was renowned for his knowledge of military history.

Born and reared on an Iowa farm, Flannery earned a bachelor's degree in history and political science and a master's degree in political science, both from the University of Iowa at Iowa City.

Among the survivors are his former wife and mother of his children, Susan Manning of Webster Groves; two daughters, Kathryn Flannery and Elizabeth Flannery, both of Webster Groves; his mother, Pauline Flannery of Iowa City, Iowa; and two brothers, Ken Flannery of Duluth, Minn., and Donald Flannery of Des Moines, Iowa.

Memorial contributions may be made to The Flannery Children Trust, c/o Mercantile Bank, P.O. Box 524, St. Louis, MO 63166.

### Medical school faculty granted tenure

At the October meeting of the Board of Trustees, the following School of Medicine faculty members were granted tenure via promotion or appointment, effective Oct. 1:

#### Promotion with tenure

**Wilson M. Compton III, M.D.**, to associate professor of psychiatry

**George D. Despotis, M.D.**, to associate professor of anesthesiology

**Raphael Kopan, Ph.D.**, to associate professor of molecular biology and pharmacology

**David M. Holtzman, M.D.**, to associate professor of neurology

**Gregory D. Longmore, M.D.**, to associate professor of medicine

**Jeffrey J. Neil, M.D., Ph.D.**, to associate

professor of neurology

**Jay F. Piccirillo, M.D.**, to associate professor of otolaryngology

**Carmelo Romano, Ph.D.**, to associate professor of ophthalmology

**Kevin E. Yarasheski, Ph.D.**, to associate professor of medicine.

#### Appointment with tenure

**Dora E. Angelaki, Ph.D.**, as associate professor of neurobiology

**Richard A. Bach, M.D.**, as associate professor of medicine

**Ann Marie Craig, Ph.D.**, as associate professor of neurobiology

**Susan K. Dutcher, Ph.D.**, as professor of genetics

**Gary D. Stormo, Ph.D.**, as professor of genetics

## For the Record

### Of note

**Marcella R. Bothwell, M.D.**, a clinical fellow in otolaryngology, recently received the Outcomes Research Small Project Award from the American Academy of Otolaryngology — Head and Neck Surgery Foundation Inc. at its annual meeting in New Orleans. Bothwell received the award for a project to evaluate long-term facial growth of children who have received endoscopic sinus surgery. ...

**Stephen M. Highstein, M.D., Ph.D.**, professor of otolaryngology, of anatomy and neurobiology, of biomedical engineering and of physical therapy, recently received a one-year \$200,000 grant from the National Science Foundation for a project titled "NASA Neurolab: Chronic Recording of Otolith Nerves in Microgravity." ...

The federal government's Defense Advanced Research Project Agency has awarded the University's Department of Systems Science and Mathematics a \$1,897,782 grant to study "Agile Control Systems with Set States," from September 1999 through February 2001. Department professors involved are **Hiroaki Mukai, Ph.D.**, professor and principal investigator; **Christopher I. Byrnes, Ph.D.**, professor and dean of the School of Engineering and Applied Science and co-principal investigator; **Alberto Isidori, Ph.D.**, professor and co-principal investigator; and principal personnel **Heinz M. Schättler,**

Ph.D., associate professor; **Liyi Dai, Ph.D.**, assistant professor; and **I. Norman Katz, Ph.D.**, department chair and professor. ...

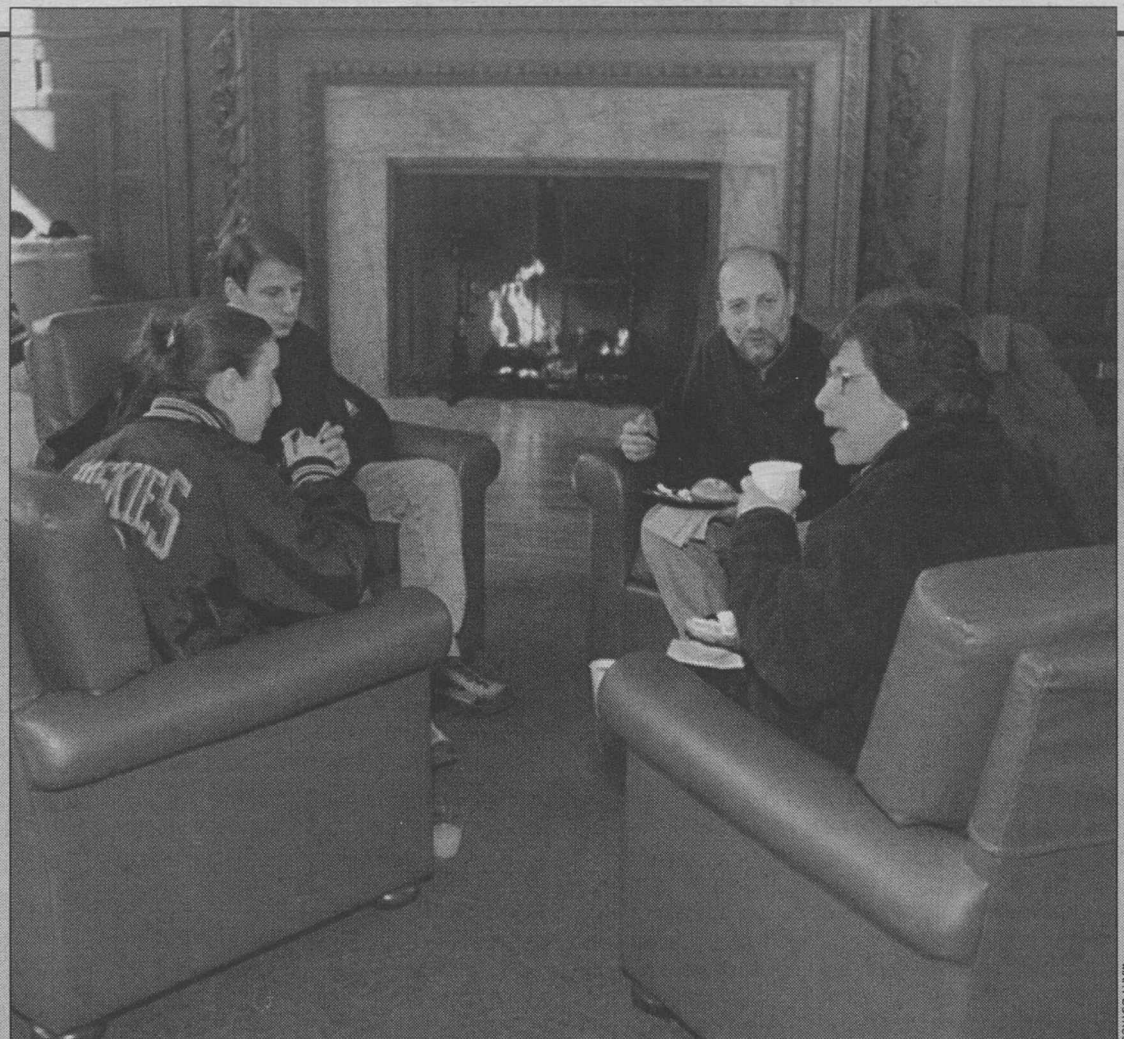
**Student Life** has been named a 1998-1999 newspaper Pace-maker finalist by the Associated Collegiate Press and the Newspaper Association of America (NAA) Foundation. From almost 200 newspapers that entered the competition, only 47 earned finalist honors. The judges were from the Atlanta Journal and Constitution and the NAA. Finalists will be honored and winners announced at an awards ceremony Oct. 30 at the National College Media Convention in Atlanta.

### To press

Aspen Law Publishing, formerly Little Brown, will publish this fall the fourth edition of a casebook co-authored by **Daniel R. Mandelker, LL.B., J.S.D.**, the Howard A. Stamper Professor of Law. The casebook is titled "Environmental Protection: Law and Policy." His congressional testimony on H.R. 1534, the land use ripeness bill, will be published in "The Urban Lawyer."

#### Guidelines for submitting copy:

Send your full name, complete title(s), department(s), phone number and highest-earned degree(s), along with a description of your noteworthy activity, to Notables, c/o David Moessner, Campus Box 1070, or e-mail David\_Moessner@aismail.wustl.edu. Items must not exceed 75 words. For information, call 935-5293.



**Time together** Freshman Jonah Fleisher (left, rear) visits with his sister, Arielle, and parents, Michael and Helen Fleisher of Oak Park, Ill., at the Parent-Student brunch in Holmes Lounge, Ridgley Hall, Sunday, Oct. 24, during Parents Weekend.

## Evolution

### Course examines science, culture

— from page 1

other parts of life. Much of the inspiration of the course is drawn from Goodenough's work linking science with religion and philosophy through numerous publications and organizations of national symposia.

Goodenough's 1998 book, "The Sacred Depths of Nature," a description of molecular biology and evolution that ties in spiritual and religious themes, laid the groundwork for the course. While president of a professional organization called IRAS (The Institute for Religion in an Age of Science), Goodenough organized a summer retreat in 1996 and invited Wyssession to attend so that he could discuss his research as a geophysicist and how geophysics can have a bearing on religion and philosophy.

The retreat was an intense week-long discussion of the origins and evolution of just about everything and how they fit within cultural frameworks. For a couple of years after the retreat, Goodenough and Wyssession discussed the possibility of offering a semester-long course to undergraduates, but they realized they needed a physicist.

**"We hope to convey something of the complete narrative, the 'history of everything,' as it is understood today."**

CLAUDE W. BERNARD

science-major undergraduates will come away with the sense that the history of the universe is just that — a history, with a time scale and a causality component and a narrative and some general principles," Goodenough said.

"Human history has these things as well, with what has gone on before being seminal to what happens next, and with general principles — for example, greed, lineage, manipulation, deception, idealism — also pervading the whole. I hope that by reflecting on this other story that we instill not only a life-long interest in following the plot line, but also give our students new kinds of perspectives as they pursue their interests in the human arts and sciences."

Goodenough said the three professors will teach the course in

one-week alternating blocks. They will attend each other's lectures and thus use them as springboards for their own lectures as well as learning from each other. The professors also will work with the students in the discussion sections.

"As a physicist, my part of the narrative is the period from the Big Bang to the formation of the solar system, but, of course,

physical laws and processes form the underlying structure in the other parts of the epic as well," Bernard said. "For example, the relative abundance of the chemical elements, fixed in the Big Bang and in the interior of

stars, determines the raw materials from which the Earth and life on it must be built.

"I think of the course as both a way to teach some fascinating physics and to show how physics fits into an overall scientific world view."

It is expected that most of the students in the class will not be science majors, so students will be encouraged to make connections between their own fields and the "scientific narrative."

"We hope to convey something of the complete narrative, the 'history of everything,' as it is understood today," Bernard added. "Knowing the basics of this big picture is necessary not only for fundamental scientific literacy, but also for understanding, in a more spiritual sense, our place as humans in the cosmos."

## Founders

### University honors faculty and friends

— from page 6

from 1993 to 1998 and is the hospital's chairman emeritus for life.

Knight received a bachelor's degree in mechanical engineering and a master's degree in business administration from Cornell University.

**Earl E. and Myrtle E. Walker** are generous supporters of educational, civic and charitable organizations in the St. Louis area,

including the YMCA in Kirkwood, Mo., the YMCA of the Ozarks, St. Joseph Hospital, the Girl Scout Council of Greater St. Louis, Shriner's Hospital and the Walker Scottish Rite Clinic for Childhood Language Disorders. In 1998, the Walkers established an endowed professorship in engineering at the University.

Both native St. Louisans, Earl and Myrtle Walker live and work in Kirkwood. Earl Walker joined Curtis-Wright Aircraft Co. after graduating from Ranken Technical School. He remained with that firm and its successor, McDonnell Aircraft Co., until 1952, when he and Myrtle Walker formed Carr

Lane Manufacturing Co. Today, Carr Lane is the foremost supplier of tooling component parts for the aircraft and automotive industries. The company and its subsidiaries have plants and warehouses in locations around the country, employ more than 325 people and offer more than 9,700 tooling items. Myrtle Walker has served as vice president and Earl Walker as president since the company's founding.

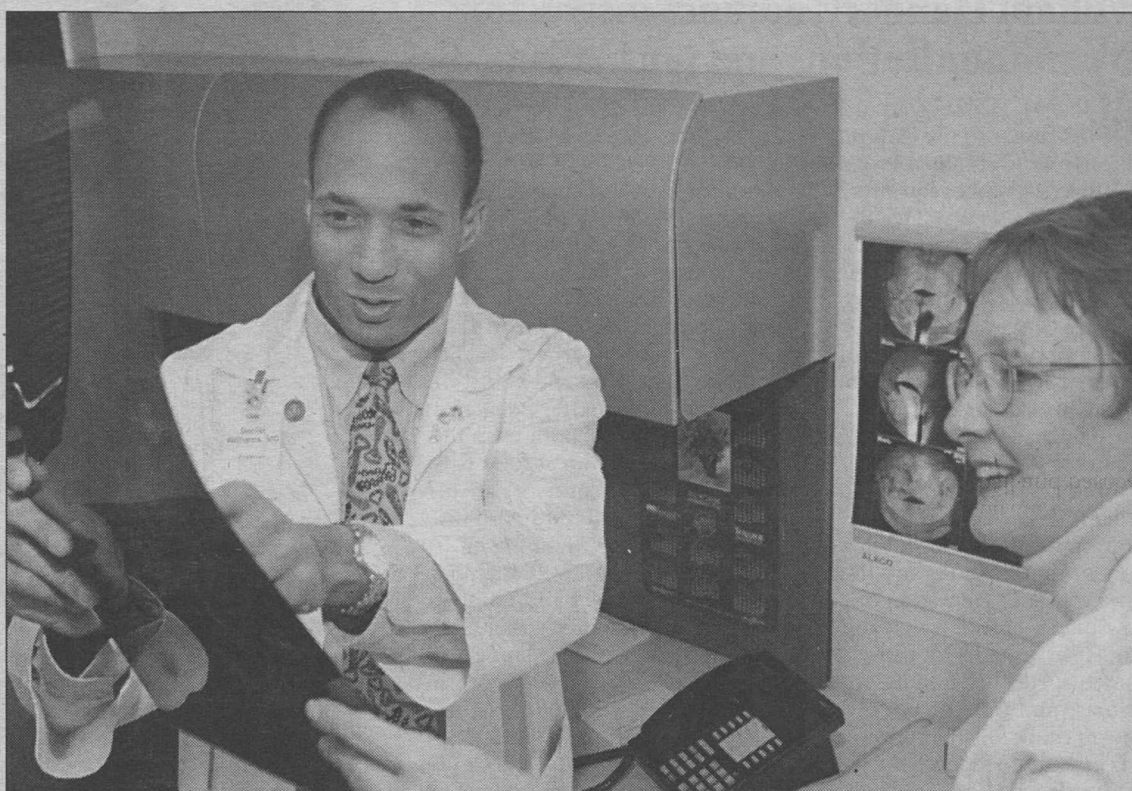
Earl Walker has been a member of the Society of Manufacturing Engineers for nearly 40 years and was inducted into the organization's College of Fellows in 1993.



## Washington People

**D**aniel B. Williams, M.D., was born in Jewish Hospital, where his mother was an operating-room nurse. So he's pleased to have a helping hand in some current births at the medical center. You won't find him in Labor and Delivery, however. As a reproductive endocrinologist, he works behind the scenes, helping infertile couples conceive.

Williams directs the Advanced Assisted Reproductive Technologies Program at 4444 Forest Park Ave. This state-of-the-art facility offers the complete spectrum of infertility treatments, including surgical correction of uterine abnormalities, hormonal therapy, in vitro fertilization (IVF) and gamete intrafallopian transfer (GIFT). The program is in the Division of Reproductive Endocrinology, which is directed by Randall R. Odem, M.D.,



Daniel B. Williams, M.D., and Nona Morgan Swank, nurse coordinator, examine a patient's image to evaluate fertility.

## Helping couples conceive

### Daniel B. Williams, M.D., sees children as gift

By LINDA SAGE

associate professor of obstetrics and gynecology.

Williams was 12 when he decided to become a physician. He was inspired by reading trauma texts belonging to his uncle, a surgeon, during summer visits to Michigan. And during high school, he was a member of the Medical Explorers Post at Barnes Hospital. When this interest continued to flourish, his mother and father, the latter director of technical assistance at Anheuser-Busch, encouraged him to attend the six-year medical program at the University of Missouri-Kansas City.

#### First delivery

A year later, when Williams was 18 and in his second year of medical school, he witnessed his first delivery. "It was very interesting to see new life coming into the world and realize that you could participate in that process," he said. "From then on, I developed an interest in obstetrics and gynecology."

He moved to Los Angeles in 1985 to complete a four-year ob/gyn residency at King-Drew Medical Center. While in training, he won the Best Teaching Resident award for 1986-87, the Resident of the Year award for 1987 and the Outstanding Resident in Laparoscopic Procedures award in 1988.

During his second year of residency at King-Drew, Williams married Sheila Douglas, who now is a mediator and investigator for the Missouri Commission on

Human Rights. In March 1998, after 12 years of marriage, the couple had a son, Ian. "I'm always excited when my patients are able to conceive," he said. "But having your own child makes you realize even more how great a gift it is."

From 1989 to 1991, Williams was a fellow in reproductive endocrinology at the University of California, Los Angeles/Cedars Sinai Medical Center, where Howard Judd, M.D., took him under his wing. "The day I started, he said that some patients might not be comfortable seeing an African-American physician," Williams recalled. "If that situation were to arise, I was to hang in there until we worked it out."

This problem did not arise

until early in Williams' medical practice, when he encountered a patient who said she would see him only once. But

after the initial consultation, she changed her mind. "The more people learn about each other, the more they realize the differences really are not that great," Williams said. "There is diversity across all groups, but we mostly have common ground."

He believes strongly in affirmative action, though not in quotas. "Affirmative action isn't about unqualified people getting in — it actively looks for qualified people," he said. "In doing that, it helps redress obvious areas where discrimination has had a significant impact."

**"I'm always excited when my patients are able to conceive. But having your own child makes you realize even more how great a gift it is."**

Williams moved back to St. Louis in 1991 to become an instructor in the School of Medicine's Department of Obstetrics and Gynecology. He was promoted to assistant professor in 1993 and to associate professor in 1997. He became director of the Advanced Assisted Reproductive Technologies Program in 1995, the year he passed his oral subspecialty boards on his first try. He and his colleagues — Sarah L. Keller, M.D., Valerie S. Ratts, M.D., Kelle H. Moley, M.D., and Randall R. Odem, M.D. — provide a range of infertility treatments including in vitro fertilization (IVF), which brings eggs and sperm together in the laboratory to produce embryos for implantation. "Although some couples with infertility may eventually conceive on their own," Williams said, "a reproductive endocrinologist can accelerate the process."

The IVF program also offers specialized techniques, such as extended embryo culture (blastocyst culture), which allows embryos to develop in the laboratory for five days prior to implantation. Other services

include cryopreservation, which freezes embryos for future use, and intracytoplasmic sperm injection, which requires just a single sperm and therefore can enable men with low sperm counts to become fathers.

"Dan Williams has been instrumental in the development of a world-class advanced reproductive technology clinical service at Washington University/Barnes-Jewish Hospital," said James R. Schreiber, M.D., professor and head of obstetrics and gynecology. "This is a major benefit to the medical center and to infertile couples in the St. Louis region."

The IVF program is run jointly with Barnes-Jewish Hospital, where Williams is on staff. It has a clinical pregnancy rate of 37 percent per egg retrieval for women younger than 40 and 45 percent for women younger than 35. If couples undergo three cycles of egg retrieval and fertilization, there is a 60 percent to 70 percent chance of conception. The reasons why some couples never can conceive are unclear, but they probably relate to problems with implantation.

As a reproductive endocrinologist, Williams can pursue

both his interest in steroid chemistry — reproductive hormones are steroids — and his love of endoscopic surgery, which can remove barriers to conception, such as fibroids, endometriosis and pelvic adhesions. "I enjoy combining manual dexterity with mental acuity when performing these more delicate procedures for infertility," he said.

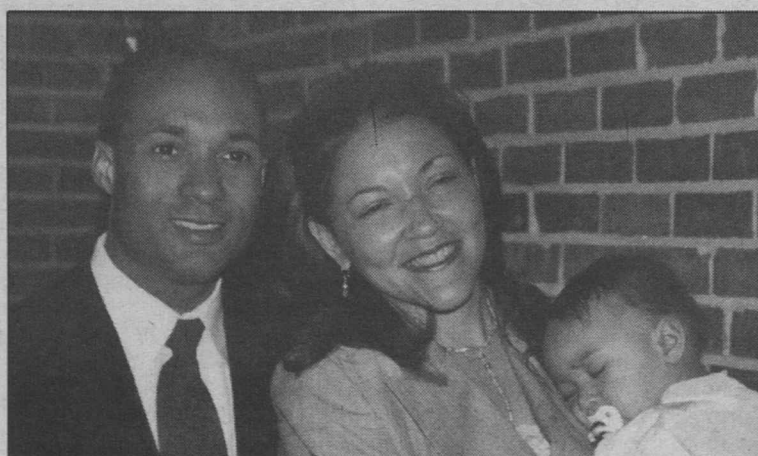
He prefers clinical research to spending time in a laboratory. His current studies focus on infertility treatment for women older than 40, the effects of exercise and estrogen on heart disease and new protocols for hormone replacement therapy. "There is so much that we still don't know about female reproduction," he said, "which makes it all the more interesting as an area for continued research."

#### Teaching honors

Williams' love of teaching has earned him departmental Excellence in Teaching awards for the past five years. He also received a National Faculty Award for Excellence in Resident Education in 1997 and 1999 from the Council on Resident Education in Obstetrics and Gynecology. "Teaching excites him, and part of that excitement rubs off because he really wants you to understand things," said Helen I. Mussemann, M.D., fourth-year resident. "He also makes you feel comfortable. In the operating room, he never makes you feel stupid or takes an instrument away from you. He just allows you to take your time and learn at your own pace."

In his spare time, Williams plays the piano and continues to enjoy sports. He started with Little League football and baseball and then became a varsity wrestler in Christian Brothers College High School. He played intramural football, basketball and softball at the University of Missouri-Kansas City. Now, he plays touch football in Forest Park, takes his family to Rams games and practices a martial art called muay-thai. "This form of kick-boxing is physically demanding, requires mental focus and demands self-control and inward calmness," he explained.

Spirituality has always been an important part of Williams' life. His grandfather founded the Richmond Heights Gospel Chapel, and he and his wife attend a nondenominational Christian church. "Without God's help and the support of my wife and extended family," he said, "it is doubtful that I would have come this far."



Dan Williams and his wife, Sheila, enjoy their son, Ian, 17 months.

#### Daniel B. Williams, M.D.

**Born** St. Louis, Missouri

**Education** University of Missouri-Kansas City School of Medicine, B.A., 1984, M.D., 1985

**Positions** Director, Advanced Assisted Reproductive Technologies Program, associate professor of obstetrics and gynecology

**Family** Wife, Sheila Williams, and son, Ian, 17 months

**Hobbies** Touch football, muay-thai, piano